

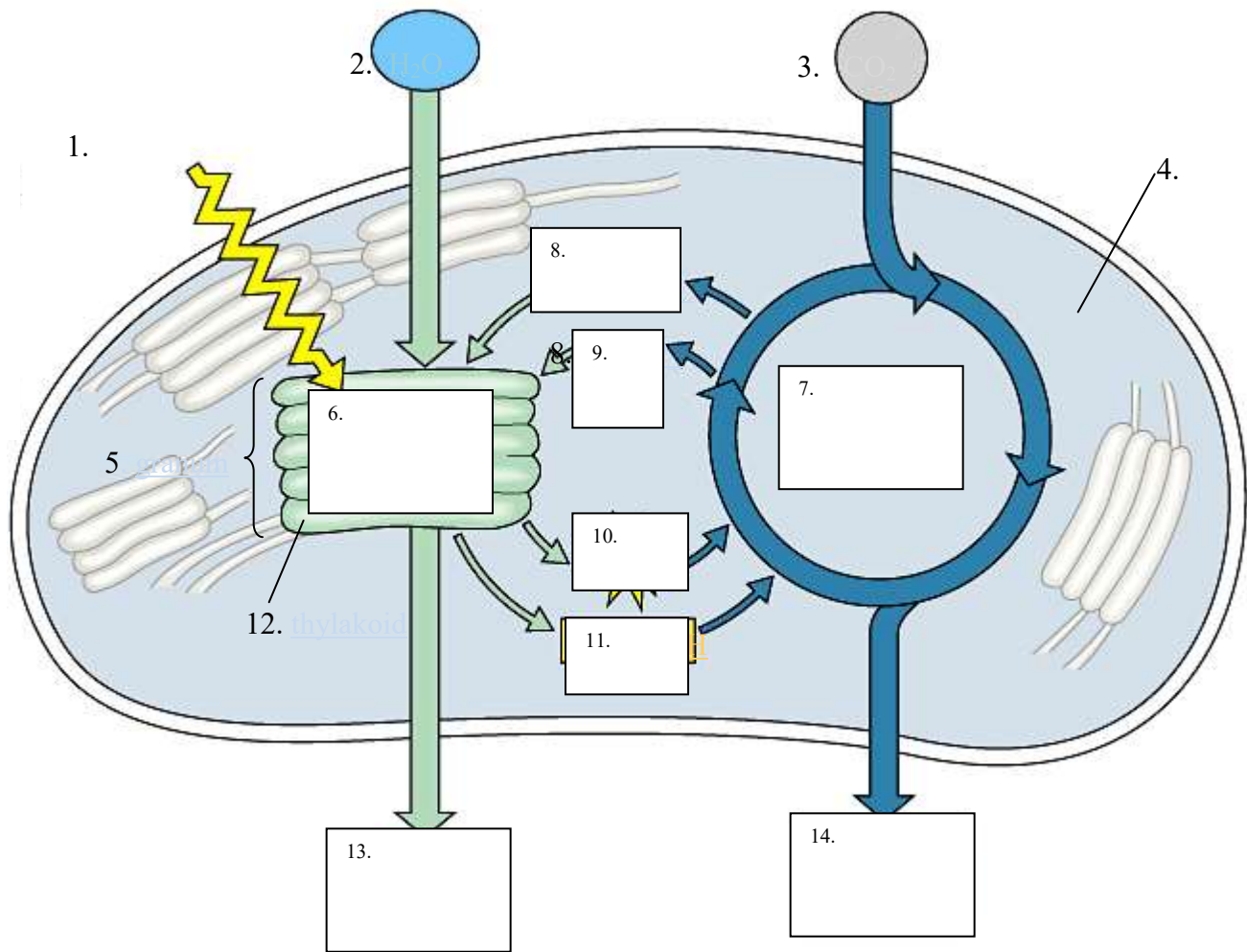
Name _____ Period _____

Photosynthesis Worksheet

1. What is the overall equation for photosynthesis?
2. From where does the energy for photosynthesis come? _____
3. What plant pigments are involved in photosynthesis?
4. Explain why chlorophyll appears green to us in terms of what happens to different wavelengths of light that strike a chlorophyll molecule.
5. In which plant cell organelle does photosynthesis take place? _____
6. What are the two stages of photosynthesis?
 - a)
 - b)
7. In which part of the chloroplast does each stage occur?
 - a)
 - b)
8. What happens to water molecules in the light reactions?
9. What photosynthesis waste product is formed in the light reactions? _____
10. What two products of the light reactions are used up in the Calvin cycle?
 - a)
 - b)

Name _____ Period _____

11. What happens to carbon dioxide molecules in the Calvin cycle reactions?
12. How can cells store the sugar that is produced in photosynthesis?
13. Label the diagram below to summarize the two stages of photosynthesis. Use the word bank below the diagram to fill in the blanks.



thylakoids
granum
stroma
light reactions

Calvin cycle
light
H₂O
sugar

CO₂
NADPH
ATP

NADP⁺
O₂
ADP + P